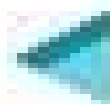


Mathematical Population Dynamics and Epidemiology in Temporal and Spatio-Temporal Domains



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Mathematical Population

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Mathematical Population:

A Short History of Mathematical Population Dynamics Nicolas Bacaër, 2011-02-01 As Eugene Wigner stressed mathematics has proven unreasonably effective in the physical sciences and their technological applications The role of mathematics in the biological medical and social sciences has been much more modest but has recently grown thanks to the simulation capacity offered by modern computers This book traces the history of population dynamics a theoretical subject closely connected to genetics ecology epidemiology and demography where mathematics has brought significant insights It presents an overview of the genesis of several important themes exponential growth from Euler and Malthus to the Chinese one child policy the development of stochastic models from Mendel's laws and the question of extinction of family names to percolation theory for the spread of epidemics and chaotic populations where determinism and randomness intertwine The reader of this book will see from a different perspective the problems that scientists face when governments ask for reliable predictions to help control epidemics AIDS SARS swine flu manage renewable resources fishing quotas spread of genetically modified organisms or anticipate demographic evolutions such as aging mathematical population dynamics Ovide Arino, 2020-12-18 This book is an outcome of the Second International Conference on Mathematical Population Dynamics It is intended for mathematicians statisticians biologists and medical researchers who are interested in recent advances in analyzing changes in populations of genes cells and tumors *Mathematical Population Genetics 1* Warren J. Ewens, 2004-01-09 This is the first of a planned two volume work discussing the mathematical aspects of population genetics with an emphasis on evolutionary theory This volume draws heavily from the author's 1979 classic but it has been revised and expanded to include recent topics which follow naturally from the treatment in the earlier edition such as the theory of molecular population genetics *Computational And Mathematical Population Dynamics* Necibe Tuncer, Maia Martcheva, Olivia Prosper, Lauren Childs, 2023-06-21 This book is a collection of works that represent the recent advancements in computational and mathematical methods applied to population dynamics It concentrates on both development of new tools as well as on innovative use of existing tools to obtain new understanding of biological systems The volume introduces new state of the art techniques for defining and solving numerically control problems in mathematical biology in which the control appears linearly Such problems produce simpler optimal controls that can be implemented in practice The book further develops tools for fitting multi scale models to multi scale data and studying the practical identifiability of the parameters from multi scale data Novel model of Zika with Wolbahia infection in mosquitoes suggests that the most suitable control strategy to control Zika in the absence of Wolbahia is killing mosquitoes but the most suitable strategy when mosquitoes are Wolbahia infected is the treatment of humans A completely novel methodology of developing discrete continuous hybrid models of multi species interactions is also introduced together with avantgarde techniques for discrete continuous hybrid models analysis A mathematical model leads to new observations of the within host virus

dynamics and its interplay with the immune responses In particular it is observed that the parameters promoting CTL responses need to be boosted over parameters promoting antibody production to obtain a biologically relevant steady state A novel stochastic model of COVID 19 investigates quarantine and lock down as important strategies for control and elimination of COVID 19 **An Introduction to Mathematical Population Dynamics** Mimmo Iannelli,Andrea

Pugliese,2015-01-23 This book is an introduction to mathematical biology for students with no experience in biology but who have some mathematical background The work is focused on population dynamics and ecology following a tradition that goes back to Lotka and Volterra and includes a part devoted to the spread of infectious diseases a field where mathematical modeling is extremely popular These themes are used as the area where to understand different types of mathematical modeling and the possible meaning of qualitative agreement of modeling with data The book also includes a collections of problems designed to approach more advanced questions This material has been used in the courses at the University of Trento directed at students in their fourth year of studies in Mathematics It can also be used as a reference as it provides up to date developments in several areas **Advances In Mathematical Population Dynamics -- Molecules, Cells And**

Man - Proceedings Of The 4th International Conference On Mathematical Population Dynamics O Arino,David E Axelrod,Marek Kimmel,1997-12-04 This book presents a new approach to the subject of cosmology It fully exploits Einstein s theory of general relativity It is found that the most general formal expression of the theory replaces the 10 component tensor formalism with a 16 component quaternion formalism This leads to a unified field theory where one field incorporates gravitation and electromagnetism The theory predicts an oscillating universe cosmology with a spiral configuration Dark matter is explained in terms of a sea of particle antiparticle pairs each in a particular derived ground state This leads to an explanation for the separation between matter and antimatter in the universe There is a brief discussion of black holes and pulsars The final chapter delves into philosophical considerations such as the different types of truth positivism versus realism and a discussion of the role of the Mach principle in physics and cosmology a Mathematical Population Genetics

And Evolution Of Bacterial Cooperation Volker Hosel,Christina Kuttler,Johannes Muller,2020-03-13 Social life of bacteria is in the focus of recent research Bacteria are simple enough to be accessible by science but still complex enough to show cooperation division of labor bet hedging cross talk and synchronized activities and a rich variety of social traits A central question of evolutionary theory is the explanation why this social life did develop and why these systems are evolutionary stable This book introduces the reader into the theory of evolution covering classical models and as well as recent developments The theory developed is used to represent the up to date understanding of social bacteria This book will be useful for students and lecturers interested in mathematical evolutionary theory as well as for researchers as a reference

Mathematical Population Dynamics and Epidemiology in Temporal and Spatio-Temporal Domains Harkaran Singh,Joydip Dhar,2018-12-07 Mankind now faces even more challenging environment and health related problems than ever before

Readily available transportation systems facilitate the swift spread of diseases as large populations migrate from one part of the world to another. Studies on the spread of the communicable diseases are very important. This book, *Mathematical Population Dynamics and Epidemiology in Temporal and Spatio Temporal Domains*, provides a useful experimental tool for making practical predictions, building and testing theories, answering specific questions, determining sensitivities of the parameters, forming control strategies and much more. This volume focuses on the study of population dynamics with special emphasis on the migration of populations and the spreading of epidemics among human and animal populations. It also provides the background needed to interpret, construct and analyze a wide variety of mathematical models. Most of the techniques presented in the book can be readily applied to model other phenomena in biology as well as in other disciplines.

Mathematical Properties of Population-Genetic Statistics Noah A. Rosenberg, 2025-05-20. A pedagogical monograph showing how to use the mathematical properties of population genetic statistics to better interpret genetic data.

MATHEMATICAL MODELS OF LIFE SUPPORT SYSTEMS - Volume II Valeri I. Agoshko, Jean-Pierre Puel, 2009-10-10. *Mathematical Models of Life Support Systems* is a component of *Encyclopedia of Mathematical Sciences* in which is part of the global *Encyclopedia of Life Support Systems (EOLSS)*, an integrated compendium of twenty-one Encyclopedias. The Theme is organized into several topics which represent the main scientific areas of the theme. The first topic, *Introduction to Mathematical Modeling*, discusses the foundations of mathematical modeling and computational experiments which are formed to support new methodologies of scientific research. The succeeding topics are *Mathematical Models in Water Sciences*, *Climate Environmental Pollution and Degradation*, *Energy Sciences*, *Food and Agricultural Sciences*, *Population Immunology*, *Medical Sciences*, and *Control of Catastrophic Processes*. These two volumes are aimed at the following five major target audiences: University and College students, Educators, Professional practitioners, Research personnel, and Policy analysts, managers, and decision makers, and NGOs.

mathematical population dynamics Arino, 1991-04-29

Dynamical Systems and Their Applications in Biology Shigui Ruan, Gail Susan Kohl Wolkowicz, Jianhong Wu, Fields Institute for Research in Mathematical Sciences, 2003-01-01. This volume is based on the proceedings of the International Workshop on *Dynamical Systems and their Applications in Biology* held at the Canadian Coast Guard College on Cape Breton Island, Nova Scotia, Canada. It presents a broad picture of the current research surrounding applications of dynamical systems in biology, particularly in population biology. The book contains 19 papers and includes articles on the qualitative and/or numerical analysis of models involving ordinary partial functional and stochastic differential equations. Applications include epidemiology, population dynamics, and physiology. The material is suitable for graduate students and research mathematicians interested in ordinary differential equations and their applications in biology. Also available by Ruan, Wolkowicz, and Wu is *Differential Equations with Applications to Biology*, Volume 21 in the AMS series. Fields Institute Communications.

Abusing Science Philip Kitcher, 1983-06-23. *Abusing Science* is a manual for intellectual self-defense; the

most complete available for presenting the case against Creationist pseudo science It is also a lucid exposition of the nature and methods of genuine science The book begins with a concise introduction to evolutionary theory for non scientists and closes with a rebuttal of the charge that this theory undermines religious and moral values It will astonish many readers that this case must still be made in the 1980s but since it must Philip Kitcher makes it irresistibly and forcefully Not long ago a federal court struck down an Arkansas law requiring that scientific Creationism be taught in high school science classes Contemporary Creationists may have lost one legal battle but their cause continues to thrive Their efforts are directed not only at state legislatures but at local school boards and textbook publishers As Kitcher argues in this rigorous but highly readable book the integrity of science is under attack The methods of inquiry used in evolutionary biology are those which are used throughout the sciences Moreover modern biology is intertwined with other fields of science physics chemistry astronomy and geology Creationists hope to persuade the public that education in science should be torn apart to make room for a literal reading of Genesis Abusing Science refutes the popular complaint that the scientific establishment is dogmatic and intolerant denying academic freedom to the unorthodox It examines Creationist claims seriously and systematically one by one showing clearly just why they are at best misguided at worst ludicrous **An Introduction to Structured**

Population Dynamics J. M. Cushing, 1998-01-01 Interest in the temporal fluctuations of biological populations can be traced to the dawn of civilization How can mathematics be used to gain an understanding of population dynamics This monograph introduces the theory of structured population dynamics and its applications focusing on the asymptotic dynamics of deterministic models This theory bridges the gap between the characteristics of individual organisms in a population and the dynamics of the total population as a whole In this monograph many applications that illustrate both the theory and a wide variety of biological issues are given along with an interdisciplinary case study that illustrates the connection of models with the data and the experimental documentation of model predictions The author also discusses the use of discrete and continuous models and presents a general modeling theory for structured population dynamics Cushing begins with an obvious point individuals in biological populations differ with regard to their physical and behavioral characteristics and therefore in the way they interact with their environment Studying this point effectively requires the use of structured models Specific examples cited throughout support the valuable use of structured models Included among these are important applications chosen to illustrate both the mathematical theories and biological problems that have received attention in recent literature **Issues in Applied Mathematics: 2011 Edition** ,2012-01-09 Issues in Applied

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Optimal Control of Age-structured Populations in Economy, Demography, and the Environment Raouf Boucekkine, Natali Hritonenko, Yuri Yatsenko, 2013-05-13. This book covers a wide range of topics within mathematical modelling and the optimization of economic, demographic, technological and environmental phenomena. Each chapter is written by experts in their field and represents new advances in modelling theory and practice. These essays are exemplary of the fruitful interaction between theory and practice when exploring global and local changes. The unifying theme of the book is the use of mathematical models and optimization methods to describe age-structured populations in economy, demography, technological change and the environment. Emphasis is placed on deterministic dynamic models that take age or size structures, delay effects and non-standard decision variables into account. In addition, the contributions deal with the age structure of assets, resources and populations under study. Interdisciplinary modelling has enormous potential for discovering new insights in global and regional development. *Optimal Control of Age-structured Populations in Economy, Demography and the Environment* is a rich and excellent source of information on state-of-the-art modelling expertise and references. The book provides the necessary mathematical background for readers from different areas such as applied sciences, management sciences and operations research, which helps guide the development of practical models. As well as this, the book also surveys the current practice in applied modelling and looks at new research areas for a general mathematical audience. This book will be of interest primarily to researchers, postgraduate students as well as a wider scientific community including those focussing on the subjects of applied mathematics, environmental sciences, economics, demography, management and operations research.

Dynamic Population Models Robert Schoen, 2007-05-05. *Dynamic Population Models* is the first book to comprehensively discuss and synthesize the emerging field of dynamic modeling. Incorporating the latest research, it includes thorough discussions of population growth and momentum under gradual fertility declines, the impact of changes in the timing of events on fertility measures and the complex relationship between period and cohort measures. The book is designed to be accessible to those with only a minimal knowledge of calculus.

[Encyclopedic Dictionary of Mathematics](#) Nihon Sūgakkai, 1993. V. 1. A-N. v. 2. O-Z. Appendices and indexes.

Mathematical Population Dynamics: Analysis of Heterogeneity Volume One: theory of Epidemics Ovide Arino, 1995.

Intellectual Pursuits of Nicolas Rashevsky Maya M. Shmailov, 2016-08-29. Who was Nicolas Rashevsky? To answer that question, this book draws on Rashevsky's unexplored personal archival papers and shares interviews with his family, students and friends as well as discussions with biologists and mathematical biologists to flesh out and complete the picture. Most modern-day biologists have never heard of

Rashevsky Why In what constitutes the first detailed biography of theoretical physicist Nicolas Rashevsky 1899 1972 spanning key aspects of his long scientific career the book captures Rashevsky s ways of thinking about the place mathematical biology should have in biology and his personal struggle for the acceptance of his views It brings to light the tension between mathematicians theoretical physicists and biologists when it comes to the introduction of physico mathematical tools into biology Rashevsky s successes and failures in his efforts to establish mathematical biology as a subfield of biology provide an important test case for understanding the role of theory in particular mathematics in understanding the natural world With the biological sciences moving towards new vistas of inter and multi disciplinary collaborations and research programs the book will appeal to a wide readership ranging from historians sociologists and ethnographers of American science and culture to students and general readers with an interest in the history of the life sciences mathematical biology and the social construction of science

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